

# THE TECH

VOL. XXXIII. NO. 130.

THE TECH, BOSTON, MASS., FEBRUARY 14, 1914.

PRICE TWO CENTS.

## FIRST CALL ISSUED FOR TECH SHOW CANDIDATES

Annual Exploitation of Local Talent To Begin This Afternoon.

Today at 2 p. m. real activity begins in the stage department of "Royal Johnnie." Business arrangements have been progressing for some time but today marks the first call for men who will actually take part in the Show.

This contest will be judged solely upon a man's ability to sing, while his dancing ability will have nothing at all to do in his selection. The judging will be based upon points, each man receiving a certain numerical grade, and the men with the highest percentages will be chosen.

Although at times the rehearsals become monotonous and tiresome, the performances themselves are a real pleasure and a successful competitor is well repaid for his efforts to make Tech Show a success. Even if a man is not chosen for a principal but makes the chorus he is fully compensated for his work is much easier and he has no lines to remember.

There will probably be two or three trips and this feature alone should be quite a drawing card. Northampton may see "A Royal Johnnie" this year, and closely associated with this town is Smith College.

Besides the pleasure of the trip and the performances, a man has a chance to broaden his field of acquaintance and meet a great many men whom he probably never saw before, especially if he is a Freshman. This is a very great consideration and will do a man a great deal of good during his stay here.

Besides these benefits, which he may derive, he is directly behind the cause of athletics and this is something to his credit. The primary and main object of the Show is to contribute to the support of athletic sports at Tech and successful competitors help to make this possible, while unsuccessful men would have done the same thing had they had the opportunity.

Stage Manager D. M. Hughes will have charge of the competition and he will give some ideas as to what the men will have to do, together with the benefits they derive from their labors.

## COURSE II PLANT TEST

Begun Last Tuesday, It Ends This Morning At 8.00.

This morning at eight o'clock the plant test which the Seniors of Course II have been conducting since last Tuesday will come to an end.

(Continued to Page 4)

## TECH VS. HARVARD AT GYMNASIUM TONIGHT

Wrestling Meet Last Here This Year—Student Body Urged To Attend.

Tonight at eight o'clock, the Tech wrestling team undertakes its hardest task of the season—the meet with Harvard. Captain Kelly and Manager Smythe-Martin have exerted themselves to the utmost to make the match attractive and the men of the Institute can repay them only by turning out in large numbers. The freshman banquet will be over at ten minutes to eight to allow time for the men to get over to the gym. The team has at present many heavy expenses to meet and as it receives but little support from the Athletic Association it must depend upon the gate receipts for its funds. In other words, it depends upon the student body for support.

For the meet, five matches have been definitely arranged and others are pending. The following men will represent Tech in the five matches: 125-pound class, Captain Kelly; 135-pound class, handicap match, Harvard man agrees to throw Manager Smythe-Martin in fifteen minutes; 145-pound class, Treat; 158-pound class, Goodell; heavyweight class, either Crowell or Leslie.

Tech will be represented tonight by the same team that has been so successful this season, and which, in fact, has been over two years without having a defeat registered against it. Harvard, however, makes its first appearance of this year on the mat, so it is difficult to estimate the strength of her team. Nevertheless, the team has the reputation of being very strong and may spring a surprise upon its first appearance this year.

During the meet tonight, action pictures of the team will be taken for the 1914 Technique.

## SPECIAL TRAINS FOR EASTERN ALUMNI

Trains to Chicago Convention Will Meet at Albany—Many from Boston To Attend.

Two cars from Boston and two from New York with one from New York state will constitute the special M. I. T. train that is to roll into Chicago on the morning of February 20, bearing alumni to take part in the great All-Technology reunion in that city. The Boston company will leave at 10.30, the 19th, while the New York company will take train at 12.40, the two meeting at Albany at 4.00 p. m. Schenectady, Syracuse, Rochester and Buffalo will fill at least another car and the train will be run special.

(Continued on Page 3.)

## FRESHMAN WILL DINE TONIGHT IN THE UNION

Fine Program Promised, As Well As Turkey Dinner—Innovations.

Freshman Class Spirit is high today, and the 1917 Dinner this evening in the Union promises to be a live affair. A large death rate among turkeys is reported, and the committee promises the Class a good feed as well as a good time. Incidentally, something original in the souvenir line (not Fatimas), is to be given out, but as to the nature of these the Committee remains silent.

The Dinner will start promptly at six o'clock, and will close at ten minutes before eight, at which time the Class will adjourn in a body to the Tech-Harvard Wrestling Meet, where a section will be reserved for them. Tickets for this can be obtained at the Dinner.

The Committee considers itself particularly fortunate in its selection of speakers. Everyone has heard Dean Burton, and he is always a welcome speaker. His subject for tonight is "Is Tech a College or a Professional School?" Prof. Talbot will speak on "1881 versus 1914," and Profs. Russell and Miller will follow with fifteen minute talks.

## RELAY TRIALS TODAY

Final Try-Outs for Long Distance Team To Run at Providence.

Final trials for the long distance relay team to run at the Providence meet next Saturday will be held this afternoon in the gymnasium. Each man on the team is to run four laps at the Providence Armory, a distance of 704 yards. This distance is 16 yards short of eight laps on the gymnasium track. Good times are expected as several of the men went through a fast six laps last Thursday. Fox and Guething, who will undoubtedly place on both the long and short relay teams, are to try a fast four laps very soon after their eight laps. This is to determine if they could possibly run both distances against Harvard.

In addition to the 704 yard trials several men who could not run last Wednesday will run off their 352 yard trials for the short distance team. O'Hara, who is expected to make the team, is among these.

More than fifty Harvard students are trying out for the Harvard Crimson.

What became of that Junior Class Picture?

## TECHNOLOGY SPRINGS SURPRISE BY VICTORY

Defeats Columbia by Score of Six to Two—Second Half Poorly Played.

Characteristic of the usual student support of undergraduate activities at the Institute, less than a hundred students attended the Technology-Columbia Hockey game last night at the Arena.

The teams were evenly matched until the poor physical condition began to tell on Columbia's men and the Tech players easily ran away with them. Previous to tonight's game, Columbia had played two consecutive games with St. Paul's and Dartmouth, both hard fought contests.

Cochrane was easily the star for Tech. His rushing and all around work made him stand out from the others as a good collegiate hockey player. For Columbia the work of Webb, who played rover, excelled that of his teammates. By his hard work during the entire game, he kept the score down from a complete walkaway.

The first half started fairly even. The puck was rushed back and forth, but it could not be pushed by the defense men. The first goal was scored by Tech after eleven minutes of play in a rather unusual way. The puck was brought down the ice by Fletcher. On his pass out from back of the Columbia Cage he lifted the puck over the goal tender's head to Cochrane who shoved it in. A minute later Eichorn scored on a long shot from the center of the rink. After an interval of individual rushing by the members of both teams, Captain MacLeod scored Tech's third goal on a scrimmage near Columbia's cage.

Columbia's first and only score this half was due to Bartow who pushed the puck in on a face-off in front of Tech's goal. A few minutes later Eichorn repeated his former

(Continued to Page 3)

## CALENDAR

Saturday, February 14, 1914.  
12.00, 1.00—Senior Portfolio—Union.  
2.00—Name Contest for Monthly Closes.

3.00—Relay Trials—Gym.  
6.00—Freshman Class Dinner—Union.

8.00—Wrestling Meet—Tech vs. Harvard—Gym.

Monday, February 16, 1914.  
1.15—1917 Football Picture—Notman's, 5 Park Pl.

1.00, 2.00—Senior Portfolio—Union.

Tuesday, February 17, 1914.  
1.15—1916 Basketball Picture—Notman's.

Wednesday, February 18, 1914.  
1.15—THE TECH Picture—Notman's.

WRESTLING--M. I. T. VS. HARVARD--8 P. M.

# THE TECH

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SATURDAY, FEBRUARY 14, 1914.

**IN CHARGE OF THIS ISSUE.**

Editor: A. E. Keating, '17.  
Associates: M. C. Brock, '17; W. F. Johnson, '17, R. D. Stringfield, '15.

**KEEP YOUR BOOKS**

One of the things which the advent of a new term brings in its train is the fresh quantity of notices on the Union bulletin board offering second-hand text-books for sale. While this practice of selling used text-books is only moderately common, it is yet much more widespread than it deserves. While the heavy expense of Boston life often presents weighty arguments in favor of this procedure, a man should think carefully before he surrenders for a pittance the most permanent and essential part of what he spent many precious hours in acquiring.

In leaving college a man must make sure that the benefits he has gained there remain with him. No mind can retain all, or even the essentials, of the things learned at Tech. Many students, realizing this, take elaborate sets of notes on each course. Some benefit is doubtless derived in this way, but the great majority take them in such an indiscriminating way, and in such lengthy and disorderly form, that they are worth little when a necessity for particular knowledge arises.

Text-books, on the other hand, are carefully put into orderly and logical form by experts in their particular subjects. They are fully indexed, and provided in many ways with valuable qualities unattainable by the student. In particular, text-books that one has used are easy to review because the mind, as proved by experience, cannot help retaining an impression of its method of arrangement and presentation. While there are of course

**COLLEGE NEWS**

The last two performances of this season of the Yale Dramatic Club will be held this evening in the grand ball room. The last two performances of the Yale Dramatic Club for this season will be held this afternoon and evening in the grand ball room of the Waldorf-Astoria, New York City.

With the completion and opening of the Yale Bowl in the fall the suggestion has been offered that the Army-Navy football might be played at New Haven. While this would offer an excellent solution of the problem which has confronted the Army and Navy officials some doubt is expressed as to whether the Navy would object on account of the distance.

For the second time in four years the basket ball team representing the St. Lawrence University was defeated on its own floor. The St. Lawrence team is one of the strongest colleges for basket ball in New York State. The victors in this recent game were the team of the New Hampshire State College.

In conjunction with the attempts of the Harvard authorities to bring a western team to the Stadium in the fall it might be noticed that at the present time Notre Dame University has her basket ball team playing a series of nine games in the East. The schedule includes: Syracuse, Rochester, Union, Colgate and Clarkson Tech.

The report of the Associated Students of the University of California organization for January 1, 1914, gives its present wealth as \$117,317.83. This includes over \$20,000 on deposit with Berkeley banks, \$60,876.16 worth of property and \$41,434.15 as the estimated surplus of the Associated Students' Store. The only liability of the A. S. U. C. is a bill due A. G. Spalding Bros., for \$5,679.55.

Mid-years are with us. No longer is the typical Harvard student the blithesome being so often pictured.—Harvard Advocate.

some books which may well be disposed of, it is safe to say that the student makes a mistake in parting with those of any subject in which he is interested, either professionally or educationally.

**WIRELESS CLUB MEETING**

There will be a meeting of the Wireless Society next Wednesday at 4.30 in Room 11, Eng. B. Mr. H. C. Gawler, who is the federal radio inspector for the port of Boston and the New England district, will speak. Mr. Gawler is well known to wireless men in this vicinity and his subject, which has not yet been announced, will doubtless prove of much interest. All members of the Society and any other men in the Institute who would like to hear Mr. Gawler are urged to attend the meeting.

**TUFTS EDITORS CHOSEN**

The editorial and business organization of the Tufts College Weekly for the remainder of the year was made public today by the faculty advisory board. Donald K. Campbell '14 of Tyngsboro succeeds Percy M. Procter of Cambridge as editor-in-chief. He is a member of the Tufts chapter of the Commons Club, the musical clubs and is an assistant in the college library. His associate editors will be Lester F. Babcock '14 of Lynn and John W. Dole '14 of Enfield, N. H. Robert F. Lybeck '15 of Everett was selected alternate editor.

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**Boston Opera House**

TODAY, 8 to 10.40; first time in Boston. **THE LOVE OF THE THREE KINGS** (L'Amore dei Tre Re). Lucrezia Bori, Ferrari-Fontana, Amato, Ludikar, Cond., Moranoni.

WEDNESDAY, 8 to 11.25, **CARMEN**. D'Alvarez, Nielsen, Muratore, Mardones, Cond., Andre-Caplet.

FRIDAY, 8 to 10.40, **SECRET OF SUZANNE**. Nielsen, Scott, Tavecchia, Cond., Andre-Caplet. Followed by **PAGLIACCI**. Nielsen, Ferrari-Fontana, Ancona, Everett, Cond., Moranoni.

SATURDAY, 2 to 4.30, **The LOVE OF THE THREE KINGS**. Same cast as Monday.

SATURDAY, 8 to 11. Pop. Prices, 50c to \$2.50. **MARTHA** (in English). Scotney, Sapin, Ramella, White, Everett, Cond., Lyford.

Box Office. Week days, 9 to 6; Sundays, 2 to 9. Reg. Prices \$1.50 to \$5. Downtown Office, Steinert's, 162 Boylston. Mason & Hamlin Pianos used.

There was a total of 1137 students engaged in different kinds of athletics at Michigan last fall.

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**CHEMICAL SOCIETY  
HEARS FINE TALK**

Prof. Whitaker of Columbia University Makes Hit With Tech Men.

Prof. M. C. Whitaker, Head of the Department of Chemical Engineering at Columbia University, who spoke to the Chem Society last night, certainly made a hit with the Tech men. Seldom if ever has such an interesting and at the same time instructive talk been given before the Society.

Prof. Whitaker took for his subject "The Future of Chemical Engineering," and presented some of his views, and an analysis of the subject based on a psychological study of the situation, and pointed by keen illustrations.

The principal difficulty, he said, with the young Chemical Engineer, is the inability to change at a jump from laboratory to plant methods. To remove in part this difficulty, is the function of the Chemical Engineering Laboratory in the curriculum. The average wideawake young man becomes more or less familiar with Civil, Electrical, and Mechanical Engineering appliances before starting his technical education, and this familiarity is increased all through his course, but only in recent years have Chemical Engineering Laboratories, and indeed Chemical Engineering Courses, been introduced, and the prospective Chemical Engineer thus enabled to get his hands on the appliances of his art. The failure of the young graduate to make a good impression is also largely due to the fact that he has been studying reactions with small quantities so long that he cannot apply them to large amounts.

Chemical Engineering as a profession is under the disadvantage that the average layman knows and hears nothing about it. The work of its members is usually not spectacular, and is often kept secret for business reasons, and from this lack of stage effects and advertising, rises the public impression that "Chemical Engineer" and "Druggist" are synonymous terms.

Prof. Whitaker also discussed the relation of the Chemical Engineer to Investments, Business Management, and Politics, and emphasized the fact that his occupation requires training along broad economic as well as technical lines.

Enthusiastic applause marked the close of the talk, after which refreshments were served, and Tech songs sung. It was announced that Mr. A. D. Little of the firm of A. D. Little Co., has been secured for the evening of Feb. 26, the subject of his talk being "Chemical Reports."

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**HOCKEY GAME**

(Continued from Page 1)

feat by tallying on a long shot. This ended the scoring for the first half. Tired out by the first half both teams went into the second period in a listless manner. After a score by Winton for Tech, it lost all semblance of a hockey game and developed into a long scrimmage. Neither team could get away to start any real work.

They seemed so tired that when one of them did get the puck he allowed it to be taken away without even a fight. Cochrane was the only man on either side that showed any signs of real life. There was absolutely no team work. Toward the end of the half Columbia scored her last goal on a chance shot from the middle of the rink, H. Miller being responsible for the point. Cochrane retaliated after a few minutes by scoring Tech's last goal from a scrimmage.

Summary:

Columbia	Tech
H. Miller r w.....	r w Fletcher
Bartow c.....	c Winton
Webb r.....	r MacLeod (Capt.)
S. Miller l w.....	l w Sawyer
Dolbeare c p.....	c p Cochrane
Reynolds p.....	p Eichorn
Milbank (Capt.) g.....	g Lowengard

Substitute: Todd for Bartow for Columbia. Goals: For Tech, Cochrane (2), Winton, MacLeod, Eichorn (2). For Columbia, Bartow, H. Miller. Penalties, Cochrane, for tripping. Reynolds, for body-checking. Referees: Doody and Foster.

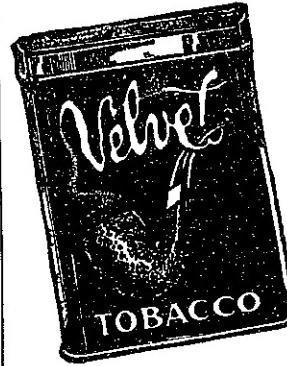
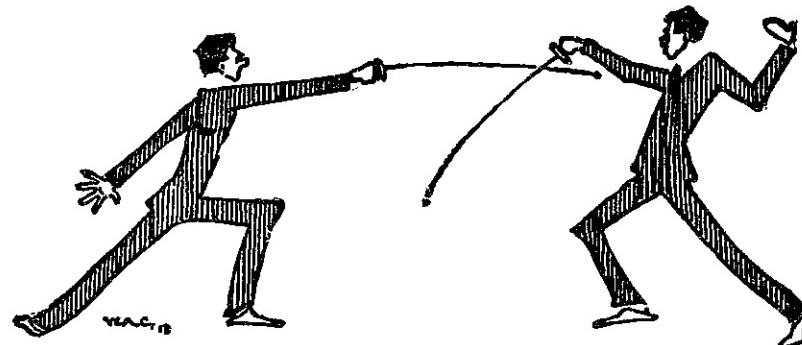
**SPECIAL TRAINS.**

(Continued from Page 1.)

The itinerary in Chicago includes two strenuous days. On Friday morning, February 20, there will be registration, informal reception and the swapping of experiences by the members of the assembled company, with a luncheon at 1 o'clock, the Blackstone Hotel being the headquarters. At two there will be a choice of trips to inspect one or another of Chicago's features. At 6 there will be the departmental dinners, these being at the University Club. Such occasions are of greatest interest since they bring together the men in the same line of work. A member of the Technology faculty will preside over each dinner. At 8 o'clock there will be a smoker in the College Hall of the University Club where there will be an address by President R. C. Maclaurin on the new Technology buildings (illustrated by lantern slides), and on the co-operative arrangement with Harvard.

On Saturday there will be the opportunity for class breakfasts. At 9:30 on a special train the Tech men will set out to visit the plant of the U. S. Steel Corporation at Gary, Ind. In the afternoon there will be a grand reception, followed in the evening by the banquet, both of them at the Blackstone Hotel. The meeting is to be under the auspices of the Northwestern Alumni Association which acts as host and tenders to the visitors many courtesies and departmental lunches.

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**NEW T. C. A. EXECUTIVE OFFICERS ELECTED**

C. G. Norton '15 Elected President—John Homan '15 Now New Vice-President.

Yesterday afternoon, at 5 o'clock, the T. C. A. election for president and vice-president closed. Charles G. Norton '15 was elected to the office of president. Norton, of the Junior Class, is a member of the Lambda Chi Alpha fraternity. He is a Course II man, and has been connected actively with the T. C. A., serving on the Membership Committee for some time. When he was elected vice-president last year, he assumed the chairmanship of that committee, by virtue, according to the constitution, of his office as vice-president. He is also a member of the Glee Club, and of the Combined Musical Clubs.

The election placed John Homan, also of the Junior Class, in the position of vice-president. Homan is a member of the Theta Xi fraternity. He has been serving on the Membership Committee of the T. C. A., and his new office places him at the head of that committee.

**PLANT TEST**

(Continued from Page 1)

The men have been working in eight hour shifts, six men on each night shift and eleven or twelve during the day. Continuous observations have been made on the boiler plant, and the efficiency of the Parsons-Westinghouse turbine and generator has been tested.

During the test all possible allowances have been made to alleviate the sufferings of the workers. Hot coffee has been brought from the Union to each shift, and smoking was not prohibited. Lunch was served to the men at their stations.

**NOTICE.**

If there are any members of the Technology Aero Club now in the Institute would they kindly communicate with J. M. Livermore, '15, by leaving their names at the Cage.

**CLASSIFIED ADS.****FOUND**

A pair of fur-lined gloves—C. A. Coleman, Phone BB 21672.

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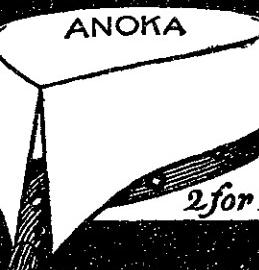
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**FACULTY NOTICES**

Second-Third-Fourth Years  
The lectures on Hertz Waves and Radio-Telegraphy will begin on Tuesday, February 17th, in Room 22, Walker, at 4.05 p. m.

WALTER HUMPHREYS,  
Registrar.

Second Year, Course IV  
Architectural History on Thursday at 10 is changed to Saturday at 12. Water Color on Tuesday is transferred from 9 to 11.

WALTER HUMPHREYS,  
Registrar.

Fourth Year Course II.  
Sections in Engineering Laboratory.  
Sections 1, 2, 5—Options 1, 2, 5.  
Section 3a—Option 3, A-L.  
Section 3b—Option 3, M-Z.

Walter Humphreys,  
Registrar.

First Year Chemistry.  
Section 14 will recite in Chemistry on Tuesdays at 10 in 21 Lowell and on Fridays at 9 in 24 Lowell.

Walter Humphreys,  
Registrar.

**Options in General Studies.**

Modern Languages.  
L 41 will meet on Tuesdays 10-11.  
L 44 Section A, will meet on Tuesdays and Thursdays 9-10.

L 44 Section B, will meet on Wednesdays and Fridays 4-5.

L 45 will meet on Saturdays 12-1.  
L 46 will meet on Fridays 12-1.

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Any student desiring to take any one of these options should consult Professor Vogel at once, as no one can be admitted after Saturday, February 14.

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